

# High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

## Pathway: Production/Processing Plant & Soil Science

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																														
7 <sup>th</sup> Grade	8 <sup>th</sup> Grade	Middle School		High School	9 <sup>th</sup> Grade Suggested	10 <sup>th</sup> Grade Suggested	11 <sup>th</sup> Grade Suggested	12 <sup>th</sup> Grade Suggested	Beyond High School																														
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none"><li>&gt; Certificate</li><li>&gt; Associate degree</li><li>&gt; Bachelor's degree</li><li>&gt; Professional degree</li><li>&gt; On-the-job training</li><li>&gt; Apprenticeship</li><li>&gt; Military training</li></ul>																														
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																																
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology—Agricultural Science or Biological Science 1.00	Agricultural Science I 1.00																																
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																															
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																	
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50																																		
			Financial Literacy	.50			Financial Literacy .50																																
Keyboarding .50			Computer Tech.	.50	Computer Technology .50																																		
CTE Intro 1.00		1.00	Career and Technical Education	1.00	<div><div>Career and Technical Education Recommended Pathway Courses</div><div>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</div><div>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</div><table><thead><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>02.0411</td><td>Plant and Soil Science I</td><td>1.00</td></tr><tr><td>02.0421</td><td>Plant and Soil Science II</td><td>1.00</td></tr><tr><td></td><td>Elective Courses:</td><td></td></tr><tr><td>01.0111</td><td>Agricultural Business Management</td><td>1.00</td></tr><tr><td>01.0311</td><td>Agricultural Science I</td><td>1.00</td></tr><tr><td>01.0802</td><td>Ag. Communications &amp; Leadership (capstone)</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr><tr><td>01.0100</td><td>Summer Agriculture Program</td><td>.25</td></tr><tr><td></td><td>Supervised Agriculture Experience Program (capstone experience)</td><td></td></tr></tbody></table><div>3.00 credits for completion</div></div>					Course #	Foundation Courses: (required)	Credit	02.0411	Plant and Soil Science I	1.00	02.0421	Plant and Soil Science II	1.00		Elective Courses:		01.0111	Agricultural Business Management	1.00	01.0311	Agricultural Science I	1.00	01.0802	Ag. Communications & Leadership (capstone)	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50	01.0100	Summer Agriculture Program	.25		Supervised Agriculture Experience Program (capstone experience)	
Course #	Foundation Courses: (required)	Credit																																					
02.0411	Plant and Soil Science I	1.00																																					
02.0421	Plant and Soil Science II	1.00																																					
	Elective Courses:																																						
01.0111	Agricultural Business Management	1.00																																					
01.0311	Agricultural Science I	1.00																																					
01.0802	Ag. Communications & Leadership (capstone)	1.00																																					
32.0199	Student Internship (Critical Workplace Skills)	.50																																					
01.0100	Summer Agriculture Program	.25																																					
	Supervised Agriculture Experience Program (capstone experience)																																						
<b>Workforce Trends</b> Agronomy is a specialized field where many agronomists are independent consultants.		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>																																					
<b>Get the Facts</b> About 17% of all U.S. agricultural products are exported yearly, including 99 million tons of grains and feed and 2 million tons of fresh vegetables.																																							
<p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>																																							

<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none"><li>&gt; Certificate</li><li>&gt; Associate degree</li><li>&gt; Bachelor's degree</li><li>&gt; Professional degree</li><li>&gt; On-the-job training</li><li>&gt; Apprenticeship</li><li>&gt; Military training</li></ul>
<p><b>Sample Occupations</b></p> <ul style="list-style-type: none"><li>&gt; Agricultural Education Teacher</li><li>&gt; Agronomist</li><li>&gt; Agronomy Department Manager</li><li>&gt; Agronomy Production Specialist</li><li>&gt; Agronomy Tech. Specialist</li><li>&gt; Plant Pathologist</li><li>&gt; Seed Sales Manager</li></ul>
<p>For more information on salary projections, labor market demand, and training options, visit <a href="http://www.careers.utah.gov">www.careers.utah.gov</a>.</p>

**Note:** For more information, talk to your school counselor.